Clarion

BEFORE TO USE THIS SOUND EQUIPMENT IS IMPORTANT TO READ THIS MANUAL
ANTES DE USAR SU EQUIPO DE SONIDO ES IMPORTANTE LEER ESTE MANUAL

Owner´s maual & installation manual
Manual de instrucciones y de instalación

FZ150

RADIO AM/FM/MP3/WMA PLAYER WITH USB/SD/MMC AND FRONT AUX INPUT
RADIO AM/FM REPRODUCTOR DE MP3/WMA/ ENTRADAS USB/SD/MMC Y AUXILIAR FRONTALES

English

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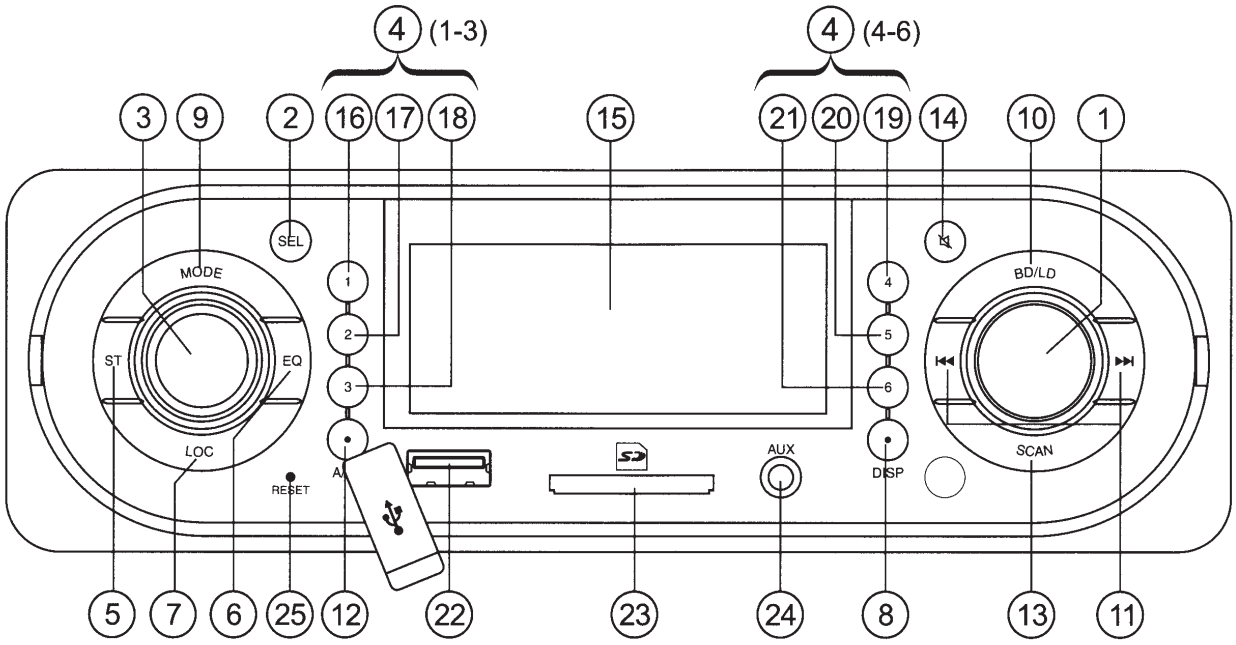
02.- OPERATION



NCD-3700

03.- QUICK BUTTONS DESCRIPTION

(1) ⏻ Power on/off .

(2) **SEL** Function select button: controls for bass (**BAS**), treble (**TRB**), balance (**BAL**), fader (**FAD**), beep (**BEEP**), adj time (**ADJ**), audio.

(3) Vol up/vol down button: controls for bass (**BAS**), treble (**TRB**), balance (**BAL**), fader (**FAD**), beep (**BEEP**), adj time (**ADJ**), audio.

(4) **1**, **2**, **3**, **4**, **5** y **6** Preset stations.

(5) **ST** Stereo/mono button.

(6) **EQ** Equalizer control.

(7) **LOC** Local/distant button.

(8) **DISP** Display button.

(9) **MODE** Mode button .

(10) **BD/LD** Band/loudness button.

(11) ⏮ , ⏭ Automatic or manual tuning (freq up or freq down) track/search button.

(12) **A/PS** Auto seek search tuning.

(13) **SCAN** Scan automatic tuning control.

(14) 🔇 Mute button.

(15) LCD display.

(16) **1** Pause button (for USB, SD/MMC at MP3/WMA files).

(17) **2** Repeat button (for USB, SD/MMC at MP3/WMA files).

(18) **3** Intro button (preview all tracks) (for USB, SD/MMC at MP3/WMA files).

(19) **4** Random button (for USB, SD/MMC at MP3/WMA files).

(20) **5** Search previous folder (MP3/WMA files only).

(21) **6** Search next folder (MP3/WMA files only).

(22) USB port.

(23) Multi-media card (MMC) /SD card slot.

(24) AUX-IN.

(25) Reset button .

English

04.- BASIC OPERATIONS

① ⏻ Power on/off

Press button to turn on the unit. To turn off, press and hold button.

② y ③ SEL Function Select Button: Controls for Bass (BAS), Treble (TRB), Balance (BAL), Fader (FAD), Beep (BEEP), Adj time (ADJ), Audio

Press the **SEL** button until the desired functions are shown on display. Figure 1, shows how to control functions that are selected using the **SEL** button.

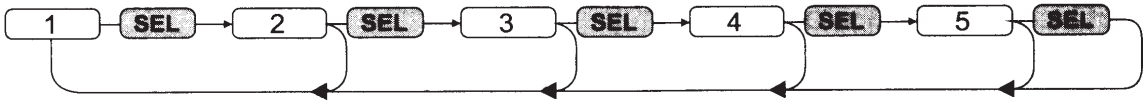
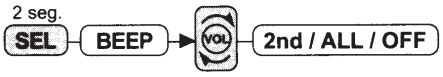


Fig 1. Selection of sounds control functions
1.VOL 2.BAS 3.TRB 4.BAL 5.FAD

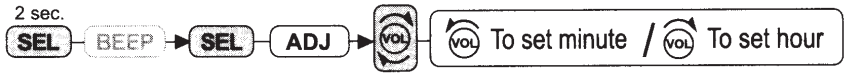
Increase or decrease the volume by turning vol knob (right / left). These buttons can be used to adjust the press and hold sel to adjust the BASS, TREBLE, BALANCE and FADER.
Press and hold SEL to adjust BEEP/ADJ/DSP.

BEEP MODE



ALL: Button sound is on permanently
2nd: Button sound is triggered by secondary button functions (hold button down for a while)
OFF: Button sound is off

ADJUST TIME



Digital Clock. To adjust, turn VOL knob to right for hours and turn VOL knob to left for minutes.

AUDIO DSP CONTROLS

④ 1, 2, 3, 4, 5 y 6 Preset stations

Six numbered preset buttons store and recall stations for each band.

Storing a station:

1. Select a band (if needed)
2. Select a station
3. Hold a preset button longer than one second. Preset station number appears in the display when station is saved.

Recall a station:

1. Select band (if needed)
2. Press a preset button for less than one second to select stored station.

⑤ ST Stereo/mono button

Press **ST** button to switch between stereo and mono sound for FM radio reception. When reception of an FM station is weak, listening quality can be improved by switching to mono sound.

⑥ EQ Equalizer control

Press EQ to select between Off/Flat/Pop/Rock/Classic equalizer modes.

⑦ LOC Local/distant button

Press Local/Distant (LO/DX) button for listening to weak stations. "LOCAL" indicator will appear on the display. Press this button again (Distant mode) for normal operation.

⑧ DISP Display button

Press DISP button to switch between display informations such as radio frequencies, clock, track and other informations depending on the playing MODE.

⑨ MODE Mode button

By pressing this key, user can select. AUX/TUNER/USB or MMC/SD mode.

04.- BASIC OPERATIONS (cont.)

⑩ BD/LD Band/Loudness Button

Each band is toggled cyclically by pressing this key FM1---FM2---FM3--AM1--AM2.

LOUDNESS: Press and hold this button, you can select LOUDNESS mode.

⑪ ⏮, ⏭ Automatic or Manual Tuning (freq up or freq down) Track / Search Button

(A) RADIO MODE

When pressed short, these keys are operated as SEEK tuning mode.

When pressed longer than 1 sec., they are operated as MANUAL tuning mode.

(B) MP3/WMA PLAYER MODE

When pressed short, they are operated as TRACK UP or TRACK DOWN mode.

When pressed longer than 1 sec., they are operated as FAST FORWARD or FAST REWIND mode.

⑫ A/PS Auto Seek Search Tuning

By pressing shortly, the radio searches for each preset station.

When field strength level is bigger than the threshold level of stop level, the radio is holding at that preset number for 5 sec. with releasing mute, and then searches again.

By pressing longer than 1 sec, and then 6 strongest stations are preset to the corresponding preset number. When AS operation is finished, the radio executes the preset scan.

⑬ SCAN Scan Automatic Tuning Control

1. Press the MODE button to switch to Radio mode.
2. Press SCAN button. When a station has been found, it is played for 5 seconds and then the auto-scan is continued. Press the button again to stop the auto-scan to listen to the currently played station.

04.- BASIC OPERATIONS (cont.)

⑭ Mute Button
Press this button, audio will disappear. Press this button again in order to hear audio newly.

⑮ LCD Display
The Liquid Crystal Display will display the current state of the unit.

05.- MP3/WMA FILE OPERATION

⑪ Track/search Button, Forward And Reverse Track Search (or Changing Songs)
Press the SKIP button ⏮ (or) ⏭ during play to go to the desired track(song).
⏮ ....REVERSE ⏭ .... FORWARD
Press and hold the SKIP button ⏮ (or) ⏭ during play to scan at high speed. When the desired music section is found, release the button. Normal play will resume.

⑯ 1 Pause Button (for USB, SD/MMC at MP3/WMA Files)
During playback, press 'PAUSE' button (16) to pause. Press it again to resume play.

⑰ 2 Repeat Button (for USB, SD/MMC at MP3/WMA Files)
When this button is pressed, 'RPT' indication is displayed and play of the selected track will be continually repeated until the Track repeat mode is cancelled by pressing 'RPT' button again.

⑱ 3 Intro Button (Preview all Tracks) (for USB, SD/MMC at MP3 / WMA Files)
When this button is pressed, 'INT' indication is displayed and the first several seconds of each track are played. Press again to stop intro and listen to track. All tracks will be repeat continually in INTRO mode.

English

05.- MP3/WMA FILE OPERATION (cont.)

⑲ 4 Random Button (for USB, SD/MMC at MP3/WMA Files)
When this button is pressed, 'RDM' indication is displayed and each track are played in random instead of normal progression. To cancel RANDOM mode, press 'RDM' button again. All tracks will be repeat continually in RANDOM mode.

⑳, ㉑ 5 & 6 Search Previous/Next Folder (MP3/WMA Files Only)
Press Button 5: Previous Folder / Press Button 6: Next Folder.

06.- HOW TO SELECT MP3/WMA FILES

Searching by Track:
• Press **A/PS**. Digit starts blinking.
• Rotate "VOL / VOL " knob until the desired track number shows then press **SEL** button.
• Song number you selected will start to play.

Searching by Folder:
• Press A/PS twice.
• Rotate "VOL / VOL " knob to select folder name then press **SEL** knob.
• Rotate "VOL / VOL " knob to select file to play then press **SEL** knob to start playback.

07.- USB/ SD/MMC MEMORY CARD

The device is equipped with a USB interface and a memory card reader for SD/MMC cards. MP3 or WMA files stored on these media can be played.
1. Plug your USB storage medium into the USB port.
2. If you use a memory card, insert it into the memory card reader.
3. The player automatically switches to the input used and starts playback.

07.- USB/ SD/MMC MEMORY CARD (cont.)

4. See the section on operations common for audio files on how to control USB or memory card playback.

Note:

- Due to the different kind of devices USB and SD/MMC card that sometimes have specific manufacturer functions, we can not guarantee that all media will be recognized, and that all operational functions will be available. (This device recognizes FAT16 and FAT32 devices).
- This device can play USB and SD/MMC card up to 32G capacity and will only play up to 2000 files.
- You can not operate USB hard drives on this device.

Warning:

To remove the USB/SD/MMC device, you should first select another source with MODE button, in order to avoid damaging the USB/SD/MMC device. Then you remove the USB/SD/MMC device.

08.- FRONT AUX IN

An external audio source (e.g. portable MP3 player) can be connected to the AUX IN socket to be played back by the vehicle loudspeakers. Press the MODE button to select the AUX IN mode.

- Connect the AUX IN socket with the audio output of the external device.

09.- RESET

Reset button is placed on the housing.
The reset button is to be activated for the following reason:

- Initial installation of the unit when all wiring is completed.
- All the function button do not operate.
- Error symbol on the display.

English

10.- GENERAL PRECAUTIONS

1.- Do not open the covers. The device has no parts inside that can be repaired by the user. If you drop an object inside the unit during installation, consult your dealer or an authorized service center.
2 .- Use a soft, dry cloth to clean the control panel. **NEVER** use abrasive pads, thinner, benzine, alcohol, etc.. If the unit is very dirty, apply a little warm water with a soft cloth and carefully remove the dirt.
3 .- Do not insert foreign devices to the auxiliary input (screwdrivers, knives, metal objects, etc.). As this may damage the equipment and they would not be covered under warranty.

11.- TECHNICAL SPECIFICATIONS

MP3/WMA Player Section	
Signal to Noise Ratio	> 60 dB
Channel Separation	> 50 dB (1kHz)
Frequency Response	20Hz - 20 kHz
Tuner (FM)	
Frequency range	87.5-107.9 MHz
Sensitivity	2.8 µV
Stereo separation	30 dB
Signal to noise ratio	50 dB
Channel step	200 kHz
Tuner AM	
Frequency range	530-1710 KHz
Sensitivity	32 dB
Line-Out	
Output	1.5V (max.)
Impedance	10k Ohm

11.- TECHNICAL SPECIFICATIONS

Front AUX IN

Frequency Response	20 Hz - 20 kHz
Sensitivity	775 mV
Impedance	20k Ohm

General

Power Supply	12V DC (10.8-15.6V allowable)
Speaker impedance	4 or 8 Ohm
Output power	40W x 4CH
Fuse	10A

Note: Specification and the design are subject to possible modification without notice due to improvements.

12.- INSTALLATION

PRECAUTIONS

☒ Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.

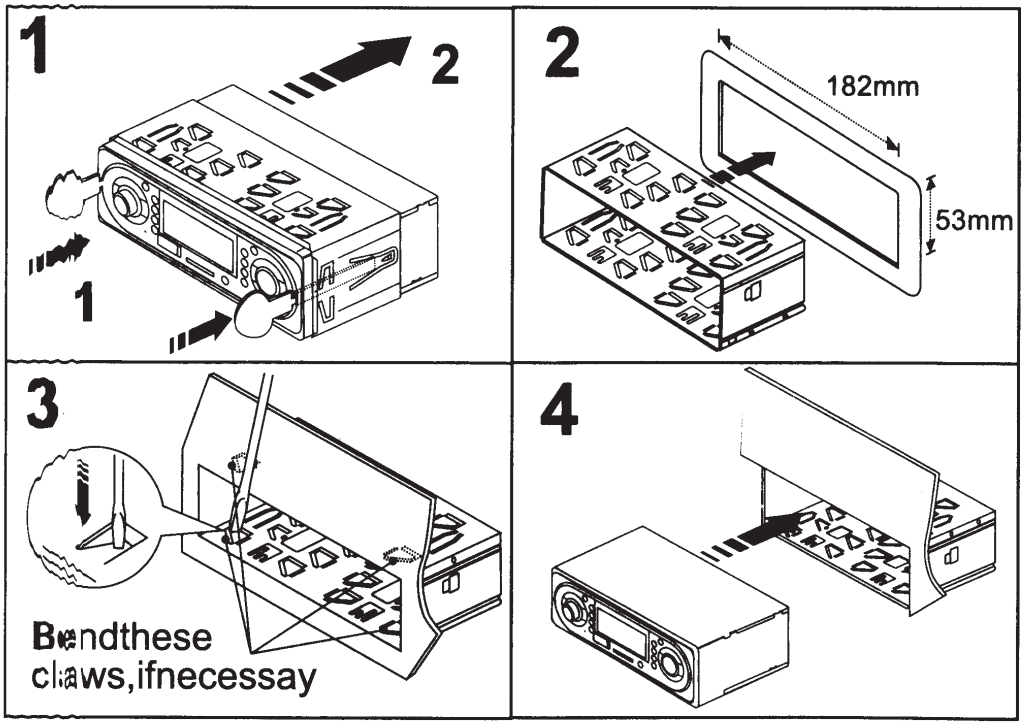
☒ Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.

☒ Use only the supplied mounting hardware for a safe and secure installation.

☒ Be sure to remove the front panel before installing the unit.

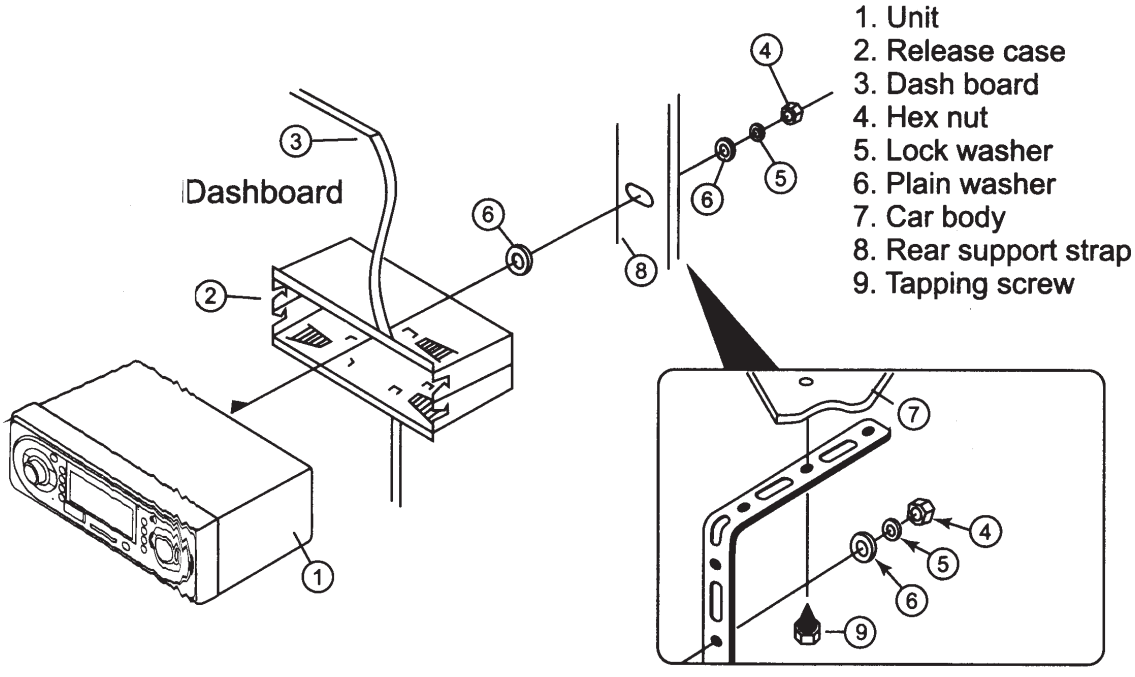
English

12.- INSTALLATION (cont.)



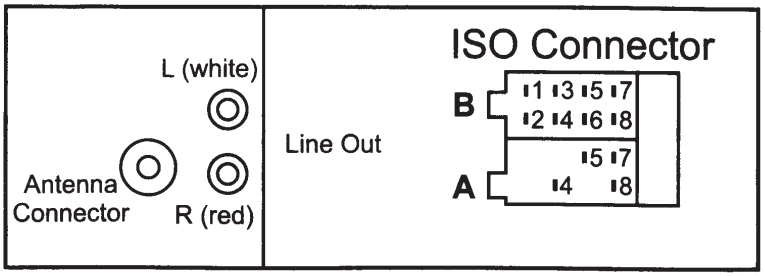
Note: Keep the release key in the safe place as you may need it in future to remove the unit from the car.

To support the unit



12.- INSTALLATION (cont.)

Wire connection
RCA Jack Line Out:
Red (right), White (left)



Connector A
4. Memory +12v
5. Auto antenna output/ Remote control output
7. +12v (to ignition key)
8. Ground

Note: (connector A no. 7) must be connected by car ignition key in order to avoid that car battery becomes weak when the car will be not used for long period.

Connector B
1. Rear right speaker (+)
2. Rear right speaker (-)
3. Front right speaker (+)
4. Front right speaker (-)
5. Front left speaker (+)
6. Front left speaker (-)
7. Rear left speaker (+)
8. Rear left speaker (-)

Maintenance
Fuse replacement
If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest repairing center.

Warning
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

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Clarion

CLARION 1 YEAR LIMITED WARRANTY

For USA and Canada only

This Clarion product purchased from an authorized Clarion dealer are warranted against all defects in materials and workmanship for a period of **one (1) year** from the date of original purchase other than consumable parts, such as the battery pack, which are covered for 6 months from the date of purchase, when purchased from **AND** installed by an authorized Clarion dealer.
All Clarion cables, wires and other accessories if purchased from an authorized Clarion dealer are warranted against all defects in materials and workmanship for ninety (90) days unless otherwise specified from the date of original purchase.

ALL PURCHASES OF CLARION PRODUCTS FROM NON-AUTHORIZED CLARION DEALERS ARE SUBJECT TO FURTHER WARRANTY RESTRICTIONS AS DESCRIBED BELOW.

The conditions of this Limited Warranty and the extent of responsibility of Clarion Corporation of America ("Clarion") under this Limited Warranty are as follows :

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2. This Limited Warranty will become void if service performed by anyone other than an approved Clarion Warranty Service Center results in damage to the product.
3. This Limited Warranty does not apply to any product which has been subject to misuse, neglect or accident, or which has had the serial number altered, defaced or removed, or which has been connected, installed, adjusted or repaired, other than in accordance with the instructions furnished by Clarion.
4. This Limited Warranty does not cover car static or other electrical interferences, tape head or laser pick-up cleaning or adjustments, or labor costs for the removal or reinstallation of the unit for repair.
5. The sole responsibility of Clarion under this Limited Warranty shall be limited to the repair of the product or replacement of the product, at the sole discretion of Clarion.
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11. Should you have any difficulties with the performance of this product during the warranty period, please call Clarion or visit our web site for a listing of Authorized Warranty Service Centers in your area. You may also contact Clarion Customer Service at the address listed below for any service help you may need with Clarion products.

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